

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 March 2001 (15.03.2001)

PCT

(10) International Publication Number
WO 01/17871 A1

(51) International Patent Classification⁷: B65D 41/00

(74) Agent: KIM, Young-Hwa; RM 101, Hwain Bldg., 824-29
Yeoksam-dong, Kangnam-ku, Seoul 135-080 (KR).

(21) International Application Number: PCT/KR00/01014

(22) International Filing Date:
6 September 2000 (06.09.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1999/0018866 U 6 September 1999 (06.09.1999) KR

(71) Applicant (for all designated States except US): IPLAS-
TIC CO., LTD. [KR/KR]; 79-74 2F, Sanbon-Dong,
Kunpo-Si, Kyongki-do 435-040 (KR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): BAE, Shin-Young
[KR/KR]; 79-74 2F, Sanbon-Dong, Kunpo-Si, Kyongki-do
435-040 (KR).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

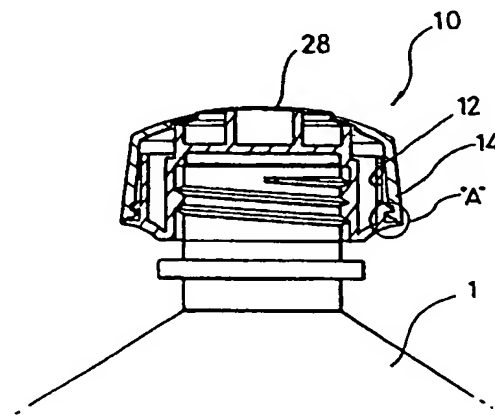
(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— With international search report.

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: BOTTLE CAP



(57) Abstract: There is provided a bottle cap configured such that consumers can easily identify the opening or closing of a cap openably installed on the mouth of a liquor bottle. The bottle cap for a bottle which holds contents, includes a cap body having an inner cap coupled so as to open or close the mouth of the bottle, and an outer cap made to rotate in a circumferential direction only and fixedly coupled to the inner cap so as not to deviate from the inner cap, ratcheting means having first and second teeth formed at facing portions of the inner and outer circumferential surfaces of the inner and outer caps and engaged to be movable unidirectionally, and first and second protrusions spaced apart from the ratcheting teeth and protruding from the facing portions of the inner and outer caps, for integrally rotating the inner and outer caps from the mouth of the bottle such that the first and second ratcheting protrusions are engaged with each other when the second ratcheting teeth move relative to the first ratcheting teeth by stages, and opening/closing identification means having a portion of displaying whether the cap body has been opened or not, printed on the top surface of the inner cap, and an identification means formed on the top surface of the outer cap, for identifying from the outside whether the cap body has been opened or not, according to movement of the second ratcheting teeth relative to the first ratcheting teeth.

12869001

WO 01/17871 A1